

CLAIMS

What is claimed is:

1. A system comprising:
a digital camera that comprises a lens, an image sensor, a display, a video output
port for coupling the camera to a television having a television display screen, and
processing circuitry;
5 a test signal comprising a beacon stored in the digital camera; and
autocalibration firmware that runs on the processing circuitry and when the
camera is coupled to a television, prompts the user to point the digital camera at the
television display screen, displays the test signal and beacon on the television display
screen, images the test signal and beacon displayed on the television display screen,
10 moves the test signal and beacon horizontally and vertically towards respective edges of
the television display screen until the beacon is lost at each edge, determines how much
viewing area is available on the television display screen, and automatically adjusts the
sizes of the images transferred from the camera for display on the television display
screen to provide for the maximum viewing area while minimizing cropping or clipping
15 of the images.
2. The system recited in Claim 1, wherein the autocalibration firmware
comprises a user interface that allows the user to selectively adjust the horizontal and
vertical size of the displayed image.
3. The system recited in Claim 2, wherein the television display screen
comprises a 16:9 HDTV television display screen.
4. The system recited in Claim 2, wherein the television display screen
comprises a 4:3 NTSC television display screen.
5. The system recited in Claim 2, wherein the user interface comprises a menu.
6. The system recited in Claim 2, wherein the user interface comprises buttons.

7. A method comprising the steps of;
 - providing a digital camera that comprises a lens, an image sensor, a display, a video output port for coupling the camera to a television, and processing circuitry;
 - providing a television having a television display screen;
 - 5 coupling the digital camera to the television;
 - storing a test signal comprising a beacon in the digital camera;
 - configuring the digital camera with autocalibration firmware that runs on the processing circuitry;
 - initiating the autocalibration firmware;
 - 10 prompting a user to point the digital camera at the television display screen;
 - displaying the test signal and beacon on the television display screen;
 - viewing on the camera display the test signal and beacon displayed on the television display screen;
 - moving the test signal and beacon horizontally and vertically towards respective
 - 15 edges of the television display screen until the beacon is lost at each edge;
 - determining how much viewing area is available on the television display screen;
 - and
 - automatically adjusting respective sizes of images transferred from the camera for display on the television display screen to provide for the maximum viewing area
 - 20 while minimizing cropping or clipping of the images.

8. The method recited in Claim 7 wherein the autocalibration firmware comprises a user interface that allow the user to selectively adjust the horizontal and vertical size of the displayed image.

9. The method recited in Claim 8, wherein the television display screen comprises a 16:9 HDTV television display screen.

10. The method recited in Claim 8, wherein the television display screen comprises a 4:3 NTSC television display screen.

11. The method recited in Claim 8, wherein the user interface comprises a menu.

12. The method recited in Claim 8, wherein the user interface comprises buttons.